

PTO/SB/01A (10-01)
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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

VACCINES TO INDUCE MUCOSAL IMMUNITY

little of invention					
As the below name	d inventor(s), I/we declare that:				
This declaration is directed to:					
	☐ The attached application, or Application No. 10/613,9	75, filed or	July 3, 2003		
	as amended on	مسيك مراسية سرم برسي بسياس بهاري سار بسايا	(if applicable);		
I/we believe that I/w which a patent is so	ve am/are the original and first inve ought;	ntor(s) of the subjec	t matter which is claimed and for		
	d and understand the contents of the mendment specifically referred to a		pplication, including the claims, as		
I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.					
belief are believed false statements an	to be true, and further that these	e statements were n r imprisonment, or b	nts made herein on information and nade with the knowledge that willful oth, under 18 U.S.C. 1001, and may		
FULL NAME OF IN	IVENTOR(S)		· · · · · · · · · · · · · · · · · · ·		
Inventor one:	onald L. Wise				
Signature:	mall the Wire	Citizen of:U	nited States		
Inventor two: De	ebra J. Trantolo				
Signature:	Def. Trantolo	Citizen of:	nited States		
Inventor three: _D	David D. Hile				
Signature:	David V. Hil	Citizen of:	nited States		
Inventor four: St	tephen A. Doherty				
Signature: _	dest cools	Citizen of:	nited States		
	rs are being named on	additional form(s) atta			
ಶ್ರು den Hour Statement: This	collection of information is required by 35 U.S.C.	115 and 37 CFR 1.63. The	Information is used by the public to file (and the USPT)		

nour statement: Inits collection of information is required by 35 U.S.C. 115 and 37 CFR 1.53. The information is used by the public to file (and the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 1 minute to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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PTO/SB/81 (02-01)

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	10/613,975
Filing Date	July 3, 2003
First Named Inventor	Donald L. Wise
Title	Vaccines to Induce Mucosal Immunity
Group Art Unit	
Examiner Name	
Attorney Docket Number	CSI 130

I hereby appoint:						7			
Practitioners at Customer Number 23579									
<i>OR</i> ☐ Practition	er(s) na	med below:				PATENT	TRADEN	ARK OFFICE	
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Zhao	yang Li				46,872				
	a D. Moi			48,731					
Todd	S. Hofn	eister		53,)29				
		agent(s) to prosecute t					trans	act all	
		tates Patent and Trade							
		spondence address for	the above-ident	ified a	application	to:			
The above-	mention	ed Customer Number.			rHI				
	s at Cus	tomer Number							
OR	o at our	torrior Humbon			- L	LábeHpé	y ∙79		
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I am the:									
Applican	Applicant/Inventor.								
Assignee of record of the entire interest. See 37 CFR 3.71.									
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).									
	_, _	SIGNATURE of App	olicant or Assign	ee of	Record				
Name	Del	iva J. Tran	11060						
Signature	Dy	1- Frantilo							
Date	Date U July 16, 2003								
NOTE: Signatures of all the inventor or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.									
☐ *Total of		ms are submitted.							
ourden Hour Statement: This	form is est	mated to take 3 minutes to comp	plete. Time will vary de	pending	upon the nee	ds of the	individu	al case. Any	comments or

bottom Hour statement. This form is estimated to date 3 minutes to complete, this provided the second of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/96 (08-00)
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STATEMENT UNDER 37 CFR 3.73(b)

SEP 1 5 2003

Applicant/Patent Owner: Donald L. Wise, D	ebra J. Trantolo, David D. Hile, and Stephen A. Doherty
Application No./Patent No.: 10/613.975	Filed/Issue Date: July 3, 2003
Entitled: Vaccines to Induce Mucosal Imn	nunity
	corporation of the Commonwealth of Massachusetts
(Name of Assignee)	(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
states that it is:	
1. 🗷 the assignee of the entire right, title, an	d interest; or
2. an assignee of less than the entire righ. The extent (by, percentage) of its owner.	t, title and interest. rship interest is%
in the patent application/patent identified above	ve by virtue of either:
A. X An assignment from the inventor(s) of t was recorded in the United States Pate which a copy thereof is attached.	he patent application/patent identified above. The assignment ent and Trademark Office at Reel, Frame, or for
OR	•
assignee as shown below:	the patent application/patent identified above, to the current
1. From:	To:
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	or for which a copy thereof is attached.
2. From: The document was recorded in the	To:ne United States Patent and Trademark Office at
Reel, Frame	, or for which a copy thereof is attached.
3 From:	To:
The document was recorded in the	ne United States Patent and Trademark Office at
Reel, Frame	, or for which a copy thereof is attached.
[] Additional documents in the chair	n of title are listed on a supplemental sheet.
	assignment document or a true copy of the original document) in accordance with 37 CFR Part 3, if the assignment is to be
The undersigned (whose title is supplied belov	v) is authorized to act on behalf of the assignee.
July 16, 2003	Debra J. TrantoLo
Date	Typed or printed name
	Morel - / Yantito
	President & CEO
	Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

ASSIGNMENT

We, Donald L. Wise of 195 Common Street, Belmont, Massachusetts 02176; Debra J. Trantolo of 28 Radford Road, Princeton, Massachusetts 01541; David D. Hile of 183 Fulton Street, Medford, Massachusetts 02155; and Stephen A. Doherty of 44 North Main Street, Newmarket, New Hanpshire 03857, in consideration of ten dollars and other valuable consideration paid to us by Cambridge Scientific, Inc., a corporation of the Commonwealth of Massachusetts, having its principal place of business at 180 Fawcett Street, Cambridge, Massachusetts 02138 (hereinafter "said Assignee"), the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said Assignee, its successors and assigns, the entire interest for the United States of America, and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property, in a certain invention or improvement in "Vaccines to Induce Mucosal Immunity" described in U.S. Serial No. 10/613,975 filed in the United States Patent and Trademark Office on July 3, 2003, by Donald L. Wise, Debra J. Trantolo, David D. Hile, and Stephen A. Doherty, and in the provisional application to which priority is claimed, being U.S. Provisional Application Serial No. 60/393,777 filed in the United States Patent and Trademark Office on July 3, 2002, and in all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on said invention, or any parts thereof, or on said application, or any provisional, divisional, continuation, continuation-in-part, reissue, or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said Assignee and its successors and assigns, but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and its territories and in all other foreign countries and jurisdictions to said Assignee, with specifications and claims in such form as shall be approved by the counsel of said Assignee, and to vest and confirm in said Assignee, its successors and assigns, the legal title to all such patents.

Title: "Vaccines to Induce Mucosal Immunity"
By: Donald L. Wisc, Debra J. Trantolo,

David D. Hile, and Stephen A. Doherty

Filed: July 3, 2003 ASSIGNMENT

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said Assignee, its successors and assigns.

WITNESS my hand and seal	this 16#	day of	July	, 2003.
		D 6	half Lee	Wie
			Donald L. Wi	se
Commonwealth of Massachusetts County of) :)			
Then personally appeared the foregoing instrument to be his free				
				A:
		_ke	Notary Publi	c
	IETH HOELZL			

My Commission expires My Commission Expires Sept. 17, 2004

Title: "Vaccines to Induce Mucosal Immunity" By: Donald L. Wise, Debra J. Trantolo, David D. Hile, and Stephen A. Doherty Filed: July 3, 2003

ASSIGNMENT

WITNESS my hand and seal this ______day of Commonwealth of Massachusetts County of _ Middle S-8x Then personally appeared the above named Debra J. Trantolo and acknowledged the foregoing instrument to be her free act and deed, before me this _/ _ day of KENNETH-HOELZL Notary Public My Commission expires: My Commission Expires Sept. 17, 2004

Title: "Vaccines to Induce Mucosal Immunity"
By: Donald L. Wise, Debra-J. Trantolo,
David D. Hile, and Stephen A. Doherty
Filed: July 3, 2003
ASSIGNMENT

WITNESS-my-hand-and-seal this-	16+h	day of	July	, 2003.
		Vair	David D. F	lile lile
Commonwealth of Massachusetts County of Wassachusetts)=. _)			
Then personally appeared the abordoregoing instrument to be his free act and 2003.				•
KENNETH Notary Pi My Commission Expire My Commission expires:	uhlia		neth Hou Notary Pa	<i>Sc</i>

Title: "Vaccines to Induce Mucosal Immunity"
By: Donald L. Wise, Debra J. Frantolo,
David D. Hile, and Stephen A. Doherty
Filed: July 3, 2003
ASSIGNMENT

WITNESS my hand and seal this 16 +4	day of July , 2003.
	Stephen A. Doherty
County of	ed Stephen A. Doherty and acknowledged eed, before me this <u>/</u> (day of
KENNETH HOELZL Notary Public My Commission expires by Commission Expires Sept. 17, 2	Notary Public

ATL1 #584527 v1